

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB



An ARRL Special Service Club

September 1991

Next Meeting September 11, 1991

MINI SWAP NIGHT

Here is your chance to sell those few little items you don't need and get that great bargain you have been searching for. No table fees, no lengthy setup, no big deal, just some fun.

Date: September 11, 1991, at the OTVARC meeting
Time: 6:00 P.M. until 7:15 P.M. and the meeting break
Cost: None, just bring your stuff
Space: Each person gets 2 feet of space along the wall.
Signup: Call Alan Churchill at 639-5660 or Sue Benson at 640-1989
Signup By: September 1, 1991
Eligible: OTVARC paid up members only.
Little Stuff: Inside the meeting room.
Big Stuff: Tailgating near the meeting room door.

SEPTEMBER MEETING

*Mini Flea Market
and
Gordon Booth*

Gordon is the coordinator planner for Washington County Office of Emergency Management. He will have a slide presentation. Gordon came to our last meeting for the first time and has been a ham for about 2 months.

OCTOBER MEETING

The KGON Tower

"How to Build a Multi-user FM Tower in an Urban Environment".

Washington County Proposes New Tower Regulations

The Washington County Planning Commission and Board of Commissioners will soon consider Land Use Ordinance No. 402 which would amend Community Development Code (Zoning Ordinance) regulations applicable to development standards and procedures for receiving and transmitting antennas and communication towers in the unincorporated urban, rural, and natural resource areas of Washington County.

Initial public hearings are scheduled as follows:

Washington County Planning Commission
1:30 PM Wednesday
September 4, 1991

Washington County Board of Commissioners
10:00 AM Tuesday
September 17, 1991

The public hearings will be held in the Auditorium of the Public Services Building, 155 North First Ave., Hillsboro.

If you would like more information about this ordinance before the hearings, contact the Planning Division of the Washington County Department of Land Use and Transportation at 640-3519 or by writing:

Planning Division
Department of Land Use and Transportation
155 North First Avenue
Hillsboro, OR 97124

[Editors Note: I was able to obtain the 402 package and have included it on pages 5, 6, and 7. Sorry for the small type, but it was hard to squeeze in.]

From The Editors Desk

By Alan Churchill, AA7CV

Hello to everyone. This is to introduce myself and let you all know how pleased I am to be working with Jeff Durr, KA7AKU, on this newsletter. Although my experience with ham radio is somewhat limited, my interest level is very high. Sometimes we expect newsletter editors to experts in their field. Well, surprise! I have been licensed for only 2 years and really active for less than a year. I operate on 40, 20 and 15 and have been working on WAS for about 6 months. I have a strong interest in home brew HF and computers. My next project will probably be a wire beam so you can expect an article from someone in the club about that.

So where does an editor with relatively little experience start? Well with you of course! In our club there is a great wealth of knowledge. I intend to tap into this for each month's articles. If you belong to OTVARC, you can expect call. This is a joint effort. All I am doing is collecting and assembling this great mass of intelligence. Jeff will then take it and make it readable.

Next month we will start with some regular departments. Some months they will be empty but most months I expect we will see some really interesting input from you on the following topics.

Board Meeting Minutes
Buy and Sell
Calendar of coming events
Emergency Preparedness notes
Letters to the Editor
New Hams and Upgrades
Project Night Update
Station of the Month
Technical Tips
Travelers Plans & Reports
What's New on Two? (and up)
Working DX

Hope to hear from you soon with interesting input for the newsletter. By the way, we owe a great big thanks to Jeff Durr for his continuing support of the newsletter.

Alan Churchill, AA7CV
14145 S.W. 98 Court
Tigard, OR 97224
503-639-5660

For Sale

Kenwood Transceiver T.S. 930S full coverage receiver. Excellent condition. All filters included and installed. Asking \$1400.00. Matching Kenwood Linear T.L.922A, brand new condition. Only on the air for testing. Ten meter modification included. Asking \$1400.00 or \$2600.00 for the pair. Manuals and boxes included. Gary - 643-6219

For Sale

ICOM IC-725 with power supply (Astron RS-20A) and audio filter (Bencher XZ-2). Antenna Included. \$800.00
Bradley Beach, N7NVC, 645-5232

OTVARC Travelers

By Jerry Mohr, N7KUQ

The next OTVARC campout will be September 20, 21, and 22 at Silver Falls State Park. The Wagonmaster is yours truly, Jerry Mohr.

The park is 73 miles from Portland, Or. To get there take I-5 south to the Woodburn exit No. 271. Then at Woodburn take highway 214 which will take you through the cities of Mount Angel and Silverton. The park is 15 miles past Silverton on highway 214. (See the map on page 8).

We will be staying at the Overnight Campground and not at the North Falls Group Camp. There are 53 sites with electric and water hook-ups (B loop) and 51 tent sites (A loop).

The campground has hot showers and restrooms. Fees are \$11.00 for water & electric hook-up and \$10.00 for tent sites. Hoses can be hooked to the water faucets with an adapter called a water cheater. The dumping station is located 3.5 miles north at the North Falls Group Camp which is on the way to Silverton. Another dumping station is located at the State Rest Area on I-5 north just before you get to Willsonville, Or.

This is a great place for a family campout with hiking and biking trails. A unique feature of the park is the hiking trail around the waterfalls. Campers are only a short hike away from the South Falls Day-Use area.

Don't forget our potluck dinner at 5:30 PM on Saturday. Please call and let me know you are coming. My phone number is 646-4027.

OTVARC GENERAL MINUTES AUGUST 14, 1991

- I. Meeting brought to order at 7:10PM (19:10)
- II. Short Public Service skit by Jim Schaeffer (KB7ADH), Paul Schaff (WB7BBG)
- III. Introduction of all present (by themselves)
- IV. Program - Roy Lewallen - 7:28
 - A. Antenna and feedline Basics
- V. Break at 8:30
- VI. Re-convened 8:45
- VII. Alan Churchill - AA7CV
 - A. Short program
- VIII. Randy Stimpson - KZ7T
 - A. U.S. Forest Service & Land Mgmt. Services
 1. Contacted clubs to see about Amateurs aiding them in their work (A first for those services)
 2. Should be a real boost for Ham's in general
 3. Oregon & Washington to be a proving ground (First attempt at co-ordination)
 4. Will use the ARES by county (call-up trees, etc.)
- IX. Janet Bell - WB7FJC
 - A. County Emergency Services update
- X. Paul Schaff - WB7BBG
 - A. Report on Nomination Committee
 1. KB7DLG - Phil
 2. KA7MOW - Steve
- XI. Wes Allen - K7WWG
 - A. ARTQUAKE - Aug 31-Sept 2
- XII. Mini Flea Mkt - September General Meeting
 - A. Coordinator - Alan Churchill AA7CV
 - B. Got quite a response from members present
 - C. Flea Mkt from 6-7PM, During break, and after meeting
- XIII. Contest - Jim Schaeffer - KB7ADH
 - A. 10M Halloween contest to be scheduled in October
 - B. Information at September/October meetings
- XIV. Meeting adjourned - 9:08PM (21:08)
- XV. 60 attendees at meeting

BOARD MEETING MINUTES AUGUST 7, 1991

- I. 1 board member absent - Al Berg - WB7SIC
- II. Meeting brought to order at 7:10PM (19:10)
- III. Note that nominations article did not make it into the newsletter
- IV. Affirmed that all board members had received the minutes
 - A. No corrections offered
- V. Treasurers Report
 - A. Some discussion on some individual items
 1. Mostly clarification on purpose/authorization
- VI. Ray Deeth - Inventory
 - A. This inventory is from the Clubs possessions at Dee Lynch's QTH
 1. Rolls of coax
 2. Antennas
 3. Guy Wire
 4. Emergency Trailer
 5. Misc radios & equip.
 - i. Yeasu 440
 - ii. HF rig
 - iii. Amplifiers
 - iv. etc.
- VII. Recommendation by Dave Funk
 - A. Publish inventory in newletter
 - B. Request that club members with additional items to tell board member(s) what they have, and where it is
- VIII. Ray Deeth - Read list of objectives he presented to the board shortly after he took office two years ago.
- IX. Two letters read to board & members present - received by Ray Deeth
 - A. One from Bob & Joe Orr
 - B. Second from Bud Butterfield
- X. Notes of recognition for Amateur Radio
 - A. State Games of Oregon
 - B. Cycle Oregon
 - C. Banks Barbecue flier
- XI. List of objectives to present to general members
 - A. Get acquainted - Host to a general meeting
 - B. Volunteer - join a committee
 - C. Club meeting - location & funding

XII. Bingo receipts

- A. \$1394.00 to the club from Sept '90 through first two weeks of June '91

XIII. PCC - Amateur classes

- A. To be held at Cedar Park Middle School
- B. Fall schedule includes
 - 1. Novice/Technician license class & exams on Tues. evenings
 - 2. General/Advanced/Extra upgrade classes on Thurs. evenings

XIV. Scholarship

- A. List of successful licensees to Pat Griffiths - Ray to supply
- B. Do we change scholarship from Novice to Tech/No-Code?
- C. Novice to remain as is
- D. No-code will have 1yr membership in club as only support
 - 1. This was suggested by a no-code license Ham present at the meeting.

XV. Sightless V.E. Tests

- A. Suggestion to set up an exam session to handle these people.
- B. Discussion on how to publish schedules so Non-Hams can have access to them
- C. The VE's will work with Bill Vesser to hold an exam near the end of the PCC term at Cedar Park school

XVI. Letter from N7NPR on setting up a Jewish Amateur (Kosher Ham) group

XVII. Meeting change notice

- A. Goodies will NOT be offered at subsequent meetings
 - 1. not enough donations to cover them
 - 2. cost was more than expected
- B. Elks now want \$6.00 per dinner - or a minimum of \$210.00
- C. Ray has spent \$440.50 to use the Valley Convention Center for the remainder of the year
- D. Received just \$60.00 for first meeting
- E. Received just \$40.00 for second meeting
 - 1. Coffee & Pop goes for \$80.00
 - 2. Goodies (cookies/ brownies, etc) also go for \$80.00
 - 3. Cannot bring in outside food & drink at Valley Conf. Cntr.

XVIII. Pat Griffith Notes

- A. Perceives a lack of procedure for spending club money
- B. Requests that a procedure be developed, and possibly added to either the By-laws or Club Constitution

XIX. General discussion on publishing club finances - to be viewed by general public

- A. Newsletter is NOT private to club since it is sent to businesses and other clubs.
- B. Some members didn't see why club financing shouldn't be totally public since it's a non-profit organization
- C. Others did see some reasons for not publishing that kind of data
- D. No resolution offered at this time

Upcoming Ham Test Sessions

By Alan, KO7B

Date: September 14
Registration: 12:30 P.M.
Doors Close: 1:00 P.M.
Location: PCC SE Center
2850 SE 82nd
Contact: Lea Ball, AL7W
777-1032

Date: October 13
Registration: 12:30 P.M.
Doors Close: 1:30 P.M.
Location: Portland Adventist Med Center
Educational Center A
10123 SE Market
Contact: Edith Litvin, KA7MIF
642-5803

Date: November 2
Registration: 9:30 A.M.
Doors Close: 10:00 A.M.
Location: Mt. Hood CC
26000 SE Stark
Contact: Buck Summers, WT7S
760-7545

Here is the text of the proposed changes. It has been retyped, so watch out for errors. If you want the real thing, contact Washington County. -- KA7AKU

WASHINGTON COUNTY, OREGON

DATE: August 29, 1991

TO: Planning Commission

FROM: Brent Curtis, Planning Manager

SUBJECT: ORDINANCE NO. 402 - RECEIVING AND TRANSMITTING ANTENNAS AND COMMUNICATION TOWERS

Recommendation

Staff recommends that the Planning Commission forward to the Board of County commissioners a recommendation that Ordinance No. 402 be approved along with the modifications contained in Attachment B.

Considerable opposition has arisen in the past to proposals to site radio transmitting antennas for cellular telephone service and emergency communications in residential areas, particularly on Cooper Mountain. Residents and property owners in the Cooper Mountain area submitted testimony during periodic review requesting that antennas and communication towers be prohibited in residential areas.

As part of the Community Development Code update for 1991, the Board of County Commissioners decided on May 21, 1991, that a task force should be established to develop mutually agreeable standards for siting receiving and transmitting antennas and communication towers in Washington County. In response to this directive, a twelve member Task Force was formed to undertake this project.

Members of the Task Force were selected in order to provide representation for the broad range of interests in this subject. (A copy of the Task Force membership is included as Attachment A.) A total of five meetings were held during the months of June, July and August.

The Planning Division retained the services of Larry Epstein, an attorney in private practice, to assist the Task Force and County staff with the review of the complex issues related to communication towers and antennas. Mr. Epstein has considerable experience in providing local governments with assistance and guidance on this topic.

Issues

The issues raised by persons in opposition to the siting of antennas and communication towers fall into three categories:

Safety: The supporting tower structures are an attractive nuisance and may be subject to collapse. This would be particularly hazardous if tower failure should occur in a residential area.

Aesthetics: Radio antennas and towers are unsightly, do not blend in with surrounding land uses and lower the value of other properties in the vicinity.

Health Hazards: Electromagnetic energy (radio signals) emitted from antennas may have detrimental effects on the health of people living nearby.

Planning Division Staff has also identified two issues that should be addressed. First, antennas and communication towers are not a clearly specified use in the FD-10, NC, OC, CBD, GC, INS and R-COM land use districts. Towers and antennas could appropriately be located in these districts. Second, existing standards in the Code do not adequately respond to all the design and siting issues that arise when reviewing this type of development.

Current Regulations

The Washington County Community Development Code currently allows "radio, television and other transmitters or related towers" through a Type II and/or Type III procedure in all districts except in the FD-10, NC, OC, CBD, GC, INS, and R-COM land use districts. The antennas and towers are allowed subject to the standards in Section 430-109 of the Code. These standards generally address location, design, setbacks, access, screening, and buffering. Towers and antennas used by public agencies for emergency communications are exempt from most of the standards.

Radio, television and other transmitting antennas and towers are not topics that are directly addressed by the Statewide Planning Goals. ORS Chapter 215 does state, however, that transmission towers over and under 200 feet in height may be established in areas zoned for exclusive farm use.

The Federal Communication Commission maintains a large body of policies and rules governing the use of radio signals. The "central location doctrine" of the FCC states:

A transmitting antenna... shall be located at the most central point at the highest elevation available... The antenna must be constructed so as to be as clear as possible of surrounding buildings and objects that would cause shadow problems.

According to Regulating Radio and TV Towers (American Planning Association, Planning Advisory Service, Report No. 384), the central location doctrine means that:

A local jurisdiction can prohibit the construction of towers at one or more sites, providing that other suitable sites are available. However, a local jurisdiction cannot ban all new communications facilities outright or impose a permanent or open-ended moratorium. The FCC has the power to issue construction permits that override such a local prohibition, and a permanent or open-ended moratorium may violate First Amendment freedoms of the Sherman Antitrust Act.

Proposed Regulations

Realizing that an outright ban on receiving and transmitting antennas and communication towers in residential areas was not advisable because of FCC considerations, the Task Force took a different approach. This approach involved drafting regulations favoring and encouraging the siting of these facilities in non-residential land use districts. This was accomplished in several ways. First, the following uses would be allowed in the NC, OC, CBD, GC, IND, and INS districts through a Type I procedure:

Receiving and transmitting antennas and communication towers subject to the height and setback requirements of the underlying land use district.

Receiving and transmitting antennas and communication towers located on a structure other than a communication tower and extending no more than thirty (30) feet above the structure, subject to the requirements of the underlying district.

Other antennas and towers less than two-hundred (200) feet would be allowed through a Type II procedure; those over two-hundred feet through a Type III procedure.

Second, sitings allowed in the R-5, R-6, R-9, R-15, R-24, R-25+, FD-10, AF-5 and RR-5 land use districts would be much more restrictive. No antennas or towers would be allowed through a Type I procedure. Only antennas located on existing structures, buildings or towers would be allowed through a Type II procedure. This was done to encourage new antennas to use existing structures and buildings rather than to construct new free-standing towers. All other towers would require a Type III review procedure. In addition, the maximum height for any antenna or tower in these residential districts would be limited to one-hundred and fifty (150) feet.

Third, more restrictive development standards are proposed for antennas and towers in residential districts than for those in non-residential districts. Setbacks in residential areas must equal at least the height of the tower; in non-residential areas they need be only thirty percent of the height of the tower, and in some instances much less. In addition, all Type II and III applications in residential districts must provide an alternative sites analysis, and Type III applications must prepare a shared use plan that allows for additional antennas to be installed on the new tower by future users.

The issue of safety has been addressed in several ways. Some of these include increased setbacks in residential areas to provide an additional margin of safety, evidence of proper engineering required to be submitted at the time application [sic], and requirements for biennial inspections of certain towers.

Aesthetics are also considered in a number of ways by the proposed development standards in 430-109. These include design and location criteria to minimize degradation of scenic views and vistas, retention of existing vegetation, minimum requirements for screening and buffering, and painting and illumination restrictions.

The health hazard issue is addressed by the addition of very detailed standards regulating "non-ionizing electromagnetic radiation" (radio signal) emissions. These standards are modeled after those developed and adopted by Multnomah County in 1982. The proposed standards, contained in Section 430-109.3(E), are among the most restrictive emission standards in the United States at this time.

Revisions to Ordinance 402

Subsequent to filing Ordinance 402, the Task Force identified several changes to Section 430-109.4 that were needed to to [sic] further clarify the requirements of this section. These changes are shown in Attachment B.

Summary

Ordinance 402 is the culmination of numerous hours of staff and consultant research and Task Force deliberations. The final product represents a general consensus of the Task Force membership. However, it must be pointed out that not all Task Force members are in one-hundred percent agreement with all provisions of the final product. Individual members have been encouraged to present their differences of opinion during the public hearing process before the Planning Commission and Board of Commissioners.

Planning Division staff concludes that Ordinance 402 in its current form is an acceptable compromise that addresses all the concerns raised by the Task Force membership.

ATTACHMENT A
COMMUNICATION TOWER/ANTENNA TASK FORCE
MEMBERSHIP COMPOSITION, 6-25-91

<u>INTEREST GROUP</u>	<u>NO. OF MEMBERS</u>	<u>NAME</u>	<u>AFFILIATION</u>
1. CELLULAR TELEPHONE	2	ED MENTEER ROSS TAYLOR	CELLULAR 1 GTE MOBILNET
2. BROADCAST TV/RADIO	1	DON MCCOUN	KUIK RADIO
3. EMERGENCY SERVICES	2	GARY SELF GARY WELLS	PUBLIC SAFETY TV FIRE & RESCUE
4. AMATEUR/RADIO	1	GREGORY MILNES	AMATEUR RADIO/ARRL
5. CPO/CCI	3	MARCIA PETTY TONY WILLIAMS LILES GARCIA	CPO 1 CPO 3 CPO 6
6. COOPER MT	1	LEONARD GARRETT	RESIDENT
7. MEDICAL/HEALTH	1	ALLEN MELNICK	WASH. CO. HEALTH
8. DEVELOPERS/HOMEBUILDERS	1	JIM STANDRING JUANITA CARR	ALOHA LAND & CATTLE (ALTERNATE)
TOTAL	12		

ATTACHMENT B

430-109.4 Additional Standards for Type II and III Applications in Residential Districts

A. Alternative sites. If a new communication tower is proposed, other than as a replacement for an existing tower, the applicant shall make a diligent, good faith effort to show:

- (1) That other existing or approved communication towers and other existing or approved structures cannot accommodate the antenna(s) planned for the new tower. Planned antenna(s) cannot be accommodated on another existing or approved tower or other structure if:
 - (a) The antenna(s) would exceed the structural capacity of existing and approved towers, considering their existing and planned use;
 - (b) The antenna(s) would cause RF interference with other existing or approved antennas, and that interference cannot be prevented at reasonable cost;
 - (c) Existing or approved towers or other structures do not have space on which the proposed antenna(s) can be placed so that it will fulfill the purpose for which it is intended or so that it will provide roughly equal access to the user group or area;
 - (d) The proposed antenna(s) cannot function effectively given the communication services to be provided and the user group or area it is intended to serve, or it cannot provide roughly equal access to the user group or area it is intended to serve as other existing or approved antenna(s) serving that group or area.
- [d] (e) Addition of the proposed antenna(s) to an existing tower or structure would cause radio frequency emissions in excess of the levels allowed by Table 430-109.3A; or
- [e] (f) Other reasons make it impracticable to place the proposed antenna(s) on an existing or approved tower or other structure.

The applicant need not contact a tower owner whose facility has been determined unsuitable for additional antennas by a previous application.

Use of an existing or approved tower or structure is not precluded simply because a reasonable fee is charged for use of the tower or structure or because of reasonable costs necessary to adapt the existing and proposed antenna(s). Costs exceeding new tower construction value are presumed unreasonable.

- (2) That the antenna(s) cannot be sited in a non-residential district. The proposed antenna(s) cannot be sited in another district if:
 - (a) Sites in non-residential districts would not accommodate the proposed antenna(s) or the communication tower associated with the antenna(s) considering the site size needed for the tower, topography and other physical characteristics of possible alternative sites, and the communication services to be provided by the proposed antenna(s);
 - (b) The tower or antenna(s) would pose a hazard to aircraft as an obstacle or source of adverse electromagnetic interference; or
 - (c) The proposed antenna(s) cannot function effectively given the communication services to be provided and the user group or area it is intended to serve, or it cannot provide roughly equal access to the user group or area it is intended to serve as other existing or approved antenna(s) serving that group or area.
 - (d) The cost to construct the tower or antenna in a non-residential district would be considerably higher. The alternative of constructing a tower/antenna in a non-residential district cannot be excluded simply because it costs more than to construct a facility in a residential district. The applicant must demonstrate that the costs associated with constructing the facility in a non-residential district are considerably higher compared to siting a comparable facility in a non-residential district.

[Use of an existing or approved tower or structure is not precluded simply because a reasonable fee is charged for use of the tower or structure or because of reasonable costs necessary to adapt the existing and proposed antenna(s). Costs exceeding new tower construction value are presumed unreasonable.]

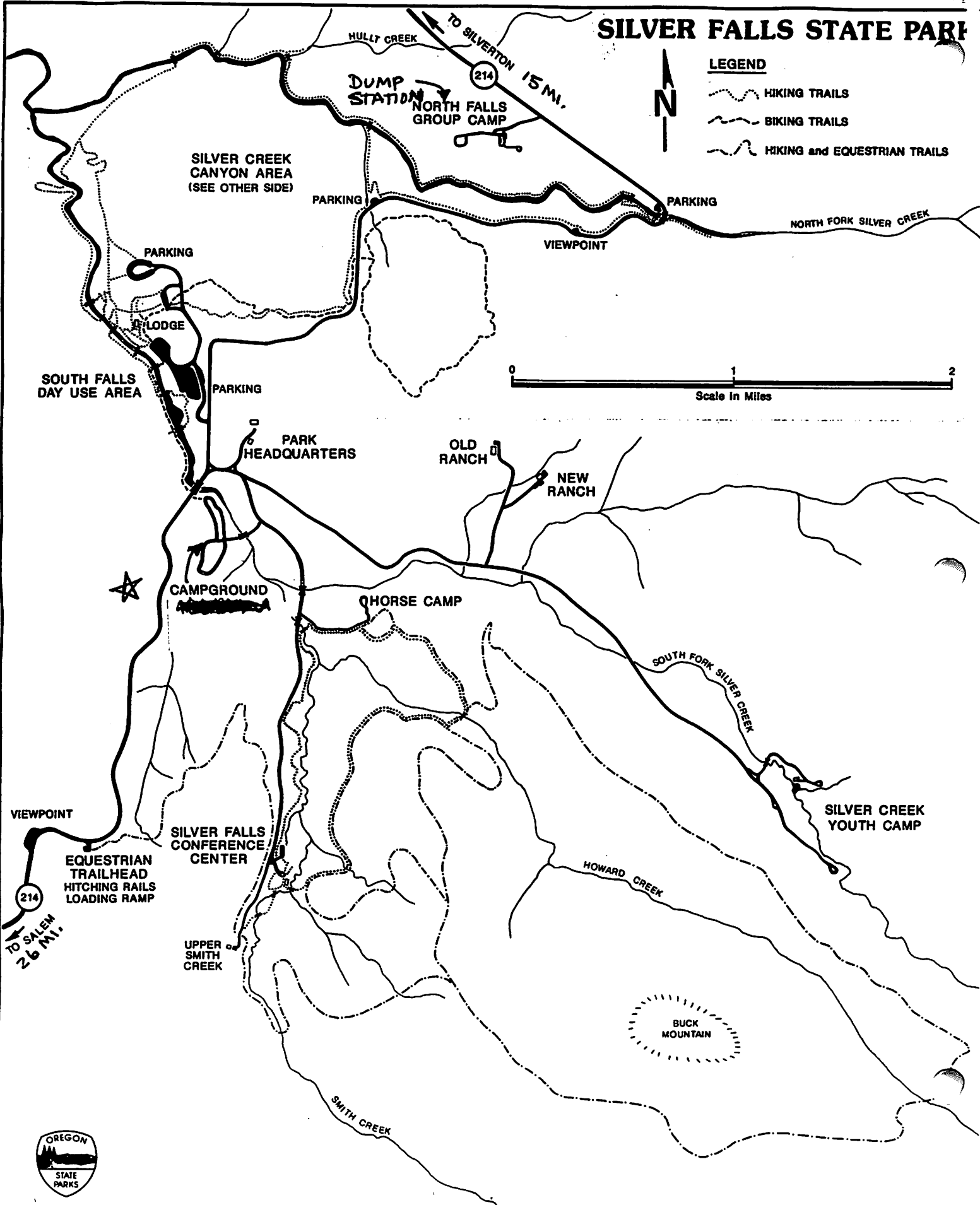
B. Minimum Height. Transmitting and receiving antennas and communication towers shall be the minimum height necessary to provide adequate communications for immediate and future planned use, [and/or] to provide parity with existing similar tower supported antenna, and shall be freestanding where the negative visual effect is less than would be created by use of a guyed tower.

New material is underlined. [Deleted material is in brackets and bold type.]

SILVER FALLS STATE PARK

LEGEND

-  HIKING TRAILS
-  BIKING TRAILS
-  HIKING and EQUESTRIAN TRAILS



Upcoming Events

September 4	Public Hearing on Ord. 402 Wash. Co. Planning Commission
September 11	OTVARC Club Meeting SWAP MEET!
September 17	Public Hearing on Ord. 402 Wash. Co. Commissioners
September 20, 21	OTVARC Travelers Campout Silver Falls State Park, OR
September 24	Project Night
October 9	OTVARC Club Meeting
October 18, 19	OTVARC Travelers Campout Pacific City 1000 Trails, OR
October 29	Project Night
November 13	OTVARC Club Meeting
November 15, 16	OTVARC Travelers Campout Depoe Bay Holiday RV Park
November 26	Project Night

The **OTVARC NEWSLETTER** is published monthly by the Oregon Tualatin Valley Amateur Radio Club, Inc.

The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the Editorial Staff.

Articles or letters may be submitted to:

Alan Churchill, AA7CV, Editor
14145 SW 98 Court
Tigard, Oregon 97224

Deadline for all material is the 20th of the preceding month.

All correspondence other than for this newsletter should be sent to:

Oregon Tualatin Valley Amateur Radio Club
Post Office Box 5132
Aloha, Oregon 97006-0132.

Meetings are held on the second Wednesday of each month.

OREGON TUALATIN VALLEY AMATEUR RADIO CLUB

Executive Board

Feel free to contact the Board of OTVARC to answer any questions you may have.

President:	Ray Deeth	K7VDQ	324-4502
Vice Pres:	Sue Benson	N7EPE	640-1989
Secretary:	Steve Coan	KA7MOW	646-5271
Treasurer:	Ken Gilbert	WR7D	292-3497
Trustee:	Wes Allen	K7WWG	649-3295
Trustee:	Al Berg	WB7SIC	640-5456
Trustee:	Lynn Hurd	WB7UNU	649-9152
Trustee:	Alan Roehl	KO7B	292-5243
Trustee:	Jim Schaeffer	KB7ADH	245-2518

Other Club Contacts

Club Trailer / Club Equipment / Technical:

Dee Lynch	KA7NPN	646-4580
Terry Biggs	WB7CHK	648-3687

Contests:

John Koenig	NB7W	641-3575
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Health and Welfare:

Al Berg	WB7SIC	640-5456
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Public Service:

Randy Stimson	KZ7T	297-1175
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Newsletter:

Alan Churchill	AA7CV	639-5660
Jeff Durr	KA7AKU	645-3205

Project Night:

Terry Biggs	WB7CHK	648-3687
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Scholarships:

Pat Griffiths	KA7UFG	649-0837
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Travelers:

Jerry Mohr	N7KUQ	646-4027
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Oregon Tualatin Valley Amateur Radio Club
Post Office Box 5132
Aloha, Oregon 97006-0132

Address Correction Requested

